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Filing Date: June 27, 2003

EMC Docket No.: EMC-01-183CIP1

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

Application.

Listing of Claims:

(Currently Amended) A computer architecture for managing resources for replication of 1.

data stored in a data storage environment including at least two data storage systems, and

wherein said data is replicated from one of the at least two data storage systems to at least one

other data storage system of the at least two data storage systems, the architecture comprising:

a data replication management server;

one or more data replication management software agents in communication with at least one of

the two data storage systems and the data replication management server, the agents being

configured for performing data replication operations in response to commands from the data

replication management server; said replicated data being replicated on a volume basis; wherein

server commands to each of the software agents are sent over a network in accordance with an

Internet ProtocolP protocol; and one or more data replication management clients that may

include a software application that uses data that is replicated by commands from the server to

the software agent.

2. (Original) The architecture of claim 1, wherein at least one of the one or more clients

includes a graphical user interface.

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3. (Original) The architecture of claim 1, wherein a switch is disposed in a communication

path between the one or more software agents and the at least two data storage systems.

4. (Original) The architecture of claim 3, wherein the switch is used to determine the

direction of data flow from one data storage system to one other data storage system of the at

least two data storage systems for controlling which data storage system functions as a target for

data replication and which functions as a source for data replication, wherein the replication is

controlled by the server.

5. (Original) The architecture of Claim 4, wherein the server stores configuration

information for replication, security and other configuration settings for the one or more software

agents and the one or more clients in the data storage environment.

6. (Original) The architecture of Claim 5, wherein communication between the server and

the one or more clients is encrypted for security purposes.

7. (Original) The architecture of Claim 6, wherein communication between the server and

the one or more clients is encrypted with at least 128 bit keys.

8. (Original) The architecture of Claim 7, wherein communication between the server and

the one or more clients is encrypted with at least 256 bit keys.

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9. (Original) The architecture of Claim 6, wherein a secure socket layer (SSL) protocol is

used for communication between the server and the one or more clients.

10. (Currently Amended) A method for managing resources for replication of data stored in a

data storage environment including at least two data storage systems, and wherein said data is

replicated under control of a server from one of the at least two data storage systems to at least

one other data storage system of the at least two data storage systems, the method comprising:

one or more data replication management software agents in communication with at least one of

the two data storage systems and the server, the agents being configured for performing data

replication operations in response to commands from the server; said replicated data being

replicated on a volume basis; wherein server commands to each of the software agents are sent

over a network in accordance with an Internet Protocol Protocol.

11. (Currently Amended) The method of Claim 10, wherein the environment includes one or

more clients that enable communication of a user with the server through a graphical user

interface, and wherein the one or more clients may include a software application that uses said

data that is replicated by commands from the server to the software agent.

12. (Original) The method of claim 10, wherein a switch is disposed in a communication path

between the one or more software agents and the at least two data storage systems.

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13. (Original) The method of claim 12, wherein the switch is used to determine the direction

of data flow from one data storage system to one other data storage system of the at least two

data storage systems for controlling which data storage system functions as a target for data

replication and which functions as a source for data replication, wherein the replication is

controlled by the server.

14. (Original) The method of Claim 11, wherein the server stores configuration information

for replication, security and other configuration settings for the one or more software agents and

the one or more clients in the data storage environment.

15. (Original) The method of Claim 14, wherein communication between the server and the

one or more clients is encrypted for security purposes.

16. (Original) The method of Claim 15, wherein communication between the server and the

one or more clients is encrypted with at least 128 bit keys.

17. (Original) The method of Claim 16, wherein communication between the server and the

one or more clients is encrypted with at least 256 bit keys.

(Currently Amended) A system for managing resources for replication of data stored in a 18.

data storage environment including at least two data storage systems, and wherein said data is

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replicated from one of the at least two data storage systems to at least one other data storage

system of the at least two data storage systems, the system comprising:

a data replication management server;

one or more data replication management software agents in communication with at least one of

the two data storage systems and the data replication management server, the agents being

configured with a computer-executable program for performing data replication operations in

response to commands from the data replication management server; said replicated data being

replicated on a volume basis; wherein server commands to each of the software agents are sent

over a network in accordance with an Internet Protocol Protocol; and one or more data

replication management clients that may include a software-application that uses data that is

replicated by commands from the server to the software-agent.

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